

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) ~~A system~~ A methodology framework for analyzing a
solution an information technology system including a plurality of components
and for designing security into that ~~solution~~ system, the ~~system~~ framework
comprising: a first system which identifies the security threats for the solution;
a second system having a security reference model ~~which determines the~~
~~security properties and functions of the overall solution that uses, as a baseline, a~~
~~security model~~ comprising a plurality of interrelated and interdependent security
subsystems, the security subsystems further comprising an audit subsystem, an
integrity subsystem, and an information flow control subsystem, the second system to
determine security properties and functions of the information technology system in
terms of the security subsystems;
a third system which is coupled to the second system and which allocates
security properties to the components of the ~~solution~~ information technology system
based upon the selected functions which are derived from the nature and number of the
security subsystems within the ~~solution~~ information technology system;
a fourth system which is coupled to the third system for allocating the security
properties to the components of the ~~solution~~ information technology system and which
identifies functional requirements for the components, in terms of the Common
Criteria, in order to comply with the security properties of the component allocated by
the third system; and
a fifth system which is coupled to the fourth system and which documents the
requirements for the security components for the information technology system.

2. (Currently Amended) A ~~system~~ framework for designing security into a ~~solution~~ an information technology system including the elements of Claim 1 wherein the second system which identifies security properties of the ~~solution~~ information technology system includes a component which uses ~~standard~~ security subsystems for identifying security properties.

3. (Currently Amended) A ~~system~~ framework for designing security into a ~~solution~~ an information technology system including the elements of Claim 2 wherein the standard criteria for identifying security properties includes a system which maps functions of ~~standard~~ security subsystems to an ISO standard 15408, also known as Common Criteria.

4. (Currently Amended) A ~~system~~ framework for designing security into a ~~solution~~ an information technology system including the elements of Claim 1 wherein the ~~system~~ framework further includes a system which documents the solution and the security assumptions using a solution design security methodology.

5. (Currently Amended) A ~~system~~ framework for designing security into a ~~solution~~ information technology system including the elements of Claim 4 wherein the ~~system~~ framework further provides integrity assurance requirements using a standard set of criteria.

6. (Currently Amended) A ~~system framework~~ for designing security into a solution
an information technology system including the elements of Claim 5 wherein the
 standard set of criteria are in accordance with ISO 15408.

7. (Currently Amended) A method of designing security ~~for a solution in a~~ for an
information technology system which includes insecure components, the steps of
 the method comprising:
 identifying the security threats to the ~~solution~~ system;
 determining the security properties within a reference model comprising in
~~terms of a plurality of interconnected and interdependent security subsystems that,~~
 inter alia, manage audits, integrity, and information flow control ~~as a baseline model of~~
~~the overall solution;~~
 assigning ~~selected security properties~~ functional details of the plurality of
security subsystems to an infrastructure, a plurality of components, and a plurality of
operations of ~~for the overall solution to components of the solution system;~~
 enumerating security requirements for the infrastructure, components and
 operations;
 developing integrity assurance requirements; and
 creating at least one functional technology diagram to document security
 requirements for the ~~solution~~ system.

8. (Currently Amended) A method of designing a secure solution including the
 steps of Claim 7 wherein the method further includes the step of ranking the
 security threats to the overall ~~solution~~ system and considering the biggest

threats to the security properties of the overall ~~solution~~ system in terms of the security subsystems.

9. (Currently Amended) A method of designing a secure ~~solution~~ system including the steps of Claim 8 wherein the step of ranking the security threats to the security properties of the overall ~~solution~~ system includes the step of doing less for security threats not considered substantial threats to the security properties of the overall ~~solution~~ system in terms of the security subsystems.

10. (Currently Amended) A method of designing a secure ~~solution~~ system including the steps of Claim 7 wherein the method further includes the step of documenting the ~~solution~~ system environment and security assumptions and using the environment and security assumptions in developing the security properties of the overall ~~solution~~ system.

11. (Currently Amended) A method of designing a secure ~~solution~~ system including the steps of Claim 7 wherein the method further includes the step of developing integrity assurance requirements for the ~~solution~~ system and using those integrity assurance requirements in the functional technology diagram(s) for the ~~solution~~ system.

12. (Currently Amended) A method of securing a solution including the steps of Claim 7 wherein the step of determining the security properties of the overall

3 ~~solution~~ system includes the step of using standard criteria for evaluating the
4 solution.

1 13. (Currently Amended) A method of securing a solution including the steps of
2 Claim 12 wherein the step of determining the security properties of the overall
3 ~~solution~~ system includes the step of using the Common Criteria of ISO Standard
4 15408.

1 14. (Currently Amended) A method of securing a ~~solution~~ system including the steps
2 of Claim 7 wherein the step of enumerating security requirements for
3 infrastructure, components and operations includes the step of using an industry
4 standard security criteria.

1 15. (Currently Amended) A method of securing a ~~solution~~ system including the steps
2 of Claim 14 wherein the step of using an industry standard security criteria
3 includes the step of using Common Criteria which conforms to ISO Standard
4 15408.

1 16. (Currently Amended) A method of securing a ~~solution~~ system including the steps
2 of Claim 7 wherein the step of enumerating security requirements for
3 infrastructure, components and operations includes the step of identifying,
4 enumerating and describing a number of ~~standard~~ security subsystems that in
5 total represent the security function of the solution.